

For Research Use Only

Cleaved Caspase 3/P17/P19 Monoclonal antibody, PBS Only

Catalog Number: 68773-1-PBS



Basic Information

Catalog Number:

68773-1-PBS

Size:

1 mg/ml

Source:

Mouse

Isotype:

IgG1

GenBank Accession Number:

NM_032991

GeneID (NCBI):

836

UNIPROT ID:

P42574

Full Name:

caspase 3, apoptosis-related cysteine
peptidase

Calculated MW:

32 kDa

Observed MW:

17 kDa, 19 kDa

Purification Method:

Protein A purification

CloneNo.:

2F7B8

Applications

Tested Applications:

WB, IHC, IF/ICC, IF-P, FC (Intra), IP, Indirect ELISA

Species Specificity:

human, mouse, rat

Background Information

Caspases, a family of endoproteases, are critical players in cell regulatory networks controlling inflammation and cell death. Initiator caspases (caspase-2, -8, -9, -10, -11, and -12) cleave and activate downstream effector caspases (caspase-3, -6, and -7), which in turn execute apoptosis by cleaving targeted cellular proteins. Caspase 3 plays a key role in the activation of sterol regulatory element binding proteins (SREBPs) between the basic helix-loop-helix leucine zipper domain and the membrane attachment domain. Caspase 3 can form heterocomplex with other proteins. This antibody can recognize p17 of Caspase 3. This antibody is specific for cleaved caspase 3, and does not recognize full length caspase-3, it can recognize the 17 kDa cleaved-caspase 3. The cleaved P17 and P19 fragment might form complex and shows at around 30-35 kDa by western blot (PMID: 25501826).

Storage

Storage:

Store at -80°C.

The product is shipped with ice packs. Upon receipt, store it immediately at -80°C

Storage Buffer:

PBS Only

For technical support and original validation data for this product please contact:

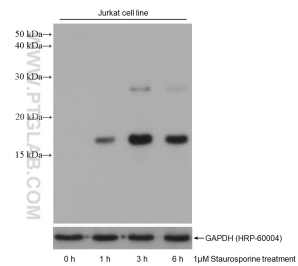
T: 4006900926

E: Proteintech-CN@ptglab.com

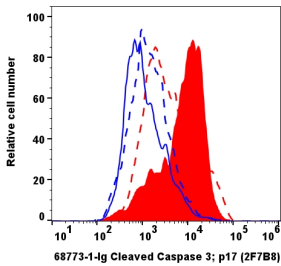
W: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

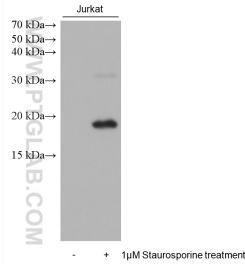
Selected Validation Data



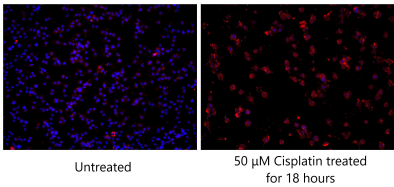
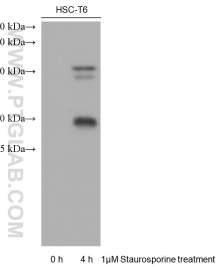
Various lysates were subjected to SDS PAGE followed by western blot with 68773-1-Ig (Cleaved Caspase 3/P17/P19 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 68773-1-PBS in a different storage buffer formulation.



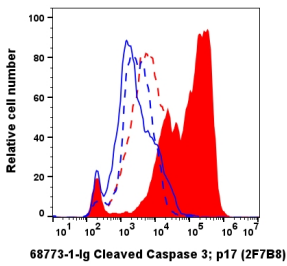
1x10⁶ non-treated Jurkat cells (dash lines) and staurosporine treated Jurkat cells (solid lines) were intracellularly stained with 0.2 μg Cleaved Caspase 3/P17/P19 Monoclonal antibody (68773-1-Ig, Clone:2F7B8, red) and Multi-rAb Coralite® Plus 647-Goat Anti-Mouse Recombinant Secondary Antibody (H+L) (Cat.NO. RGAM005). Mouse IgG1 isotype control (66360-1-Ig, Clone: 1F8D3, blue) was parallel stained as control. Cells were fixed with 4% PFA . This data was developed using



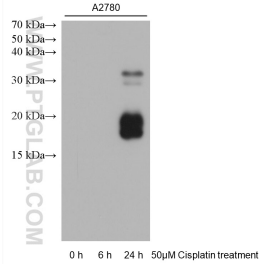
Various lysates were subjected to SDS PAGE followed by western blot with 68773-1-Ig (Cleaved Caspase 3/P17/P19 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 68773-1-PBS in a different storage buffer formulation.



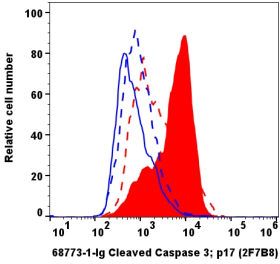
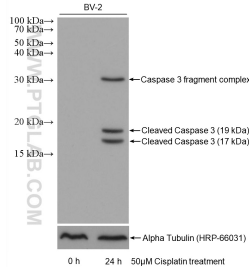
Immunofluorescent analysis of (4% PFA) fixed 50 μM Cisplatin (18 hours) treated BV-2 cells using Cleaved Caspase 3/P17/P19 antibody (68773-1-Ig, Clone: 2F7B8) at dilution of 1:1000 and Multi-rAb Coralite® Plus 594-Goat Anti-Mouse Recombinant Secondary Antibody (H+L) (Cat.NO. RGAM004). This data was developed using the same antibody clone with 68773-1-PBS in a different storage buffer formulation.



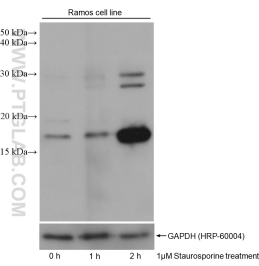
1x10⁶ non-treated BV-2 cells (dash lines) and cisplatin treated BV-2 cells (solid lines) were intracellularly stained with 0.2 μg Cleaved Caspase 3/P17/P19 Monoclonal antibody (68773-1-Ig, Clone:2F7B8, red) and Multi-rAb Coralite® Plus 647-Goat Anti-Mouse Recombinant Secondary Antibody (H+L) (Cat.NO. RGAM005). Mouse IgG1 isotype control (66360-1-Ig, Clone: 1F8D3, blue) was parallel stained as control. Cells were fixed with 4% PFA . This data was developed using



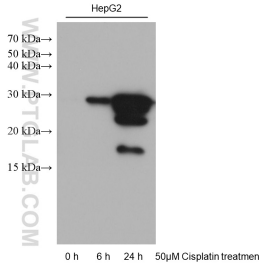
Various lysates were subjected to SDS PAGE followed by western blot with 68773-1-Ig (Cleaved Caspase 3/P17/P19 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 68773-1-PBS in a different storage buffer formulation.



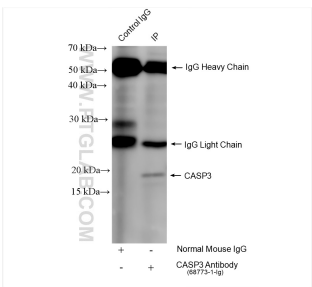
1x10⁶ non-treated Jurkat cells (dash lines) and staurosporine treated Jurkat cells (solid lines) were intracellularly stained with 0.1 μg Cleaved Caspase 3/P17/P19 Monoclonal antibody (68773-1-Ig, Clone:2F7B8, red) and Multi-rAb Coralite® Plus 647-Goat Anti-Mouse Recombinant Secondary Antibody (H+L) (Cat.NO. RGAM005). Mouse IgG1 isotype control (66360-1-Ig, Clone: 1F8D3, blue) was parallel stained as control. Cells were fixed with 4% PFA . This data was developed using



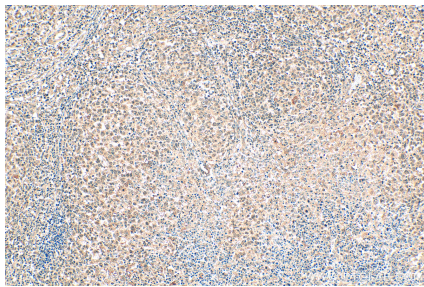
Various lysates were subjected to SDS PAGE followed by western blot with 68773-1-Ig (Cleaved Caspase 3/P17/P19 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 68773-1-PBS in a different storage buffer formulation.



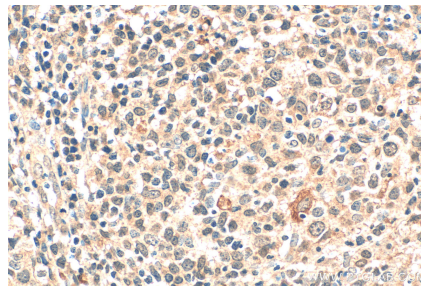
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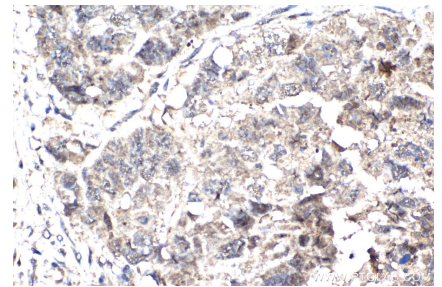
Various lysates were subjected to SDS PAGE followed by western blot with 68773-1-Ig (Cleaved Caspase 3/P17/P19 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 68773-1-PBS in a different storage buffer formulation.



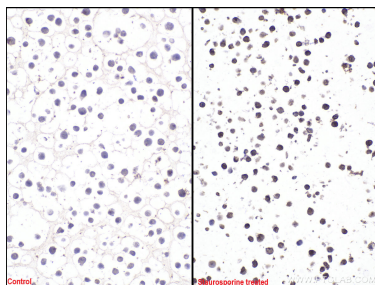
Various lysates were subjected to SDS PAGE followed by western blot with 68773-1-Ig (Cleaved Caspase 3/P17/P19 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 68773-1-PBS in a different storage buffer formulation.



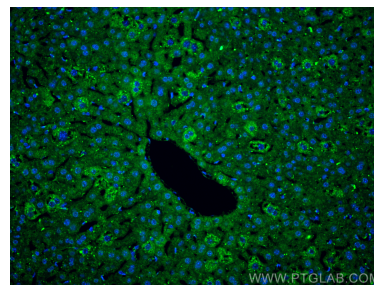
IP result of anti-Cleaved Caspase 3/P17/P19 (IP:68773-1-Ig, 4ug; Detection:68773-1-Ig 1:5000) with Staurosporine treated Jurkat cells lysate 720 ug. This data was developed using the same antibody clone with 68773-1-PBS in a different storage buffer formulation.



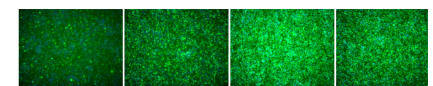
Immunohistochemical analysis of paraffin-embedded human lymphoma tissue slide using 68773-1-Ig (Cleaved Caspase 3/P17/P19 antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 68773-1-PBS in a different storage buffer formulation.



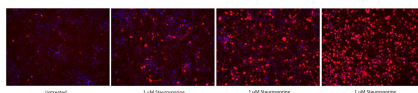
Immunohistochemical analysis of paraffin-embedded human lymphoma tissue slide using 68773-1-Ig (Cleaved Caspase 3/P17/P19 antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 68773-1-PBS in a different storage buffer formulation.



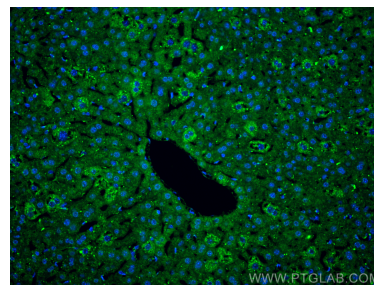
Immunohistochemical analysis of paraffin-embedded human ovary cancer tissue slide using 68773-1-Ig (Cleaved Caspase 3/P17/P19 antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 68773-1-PBS in a different storage buffer formulation.



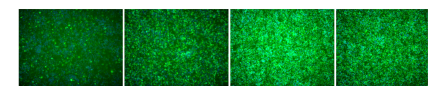
Immunohistochemical analysis of paraffin-embedded Jurkat cells slide using 68773-1-Ig (Cleaved Caspase 3/P17/P19 antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 68773-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse liver tissue using Cleaved Caspase 3/P17/P19 antibody (68773-1-Ig, Clone: 2F7B8) at dilution of 1:400 and CoraLite® 488-Conjugated Goat Anti-Mouse IgG(H+L) (SA00013-1). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 68773-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (4% PFA) fixed non-treated and 1 μ M Staurosporine (1/3/6 hours) treated Jurkat cells using Cleaved Caspase 3/P17/P19 antibody (68773-1-Ig, Clone: 2F7B8) at dilution of 1:1000 and Multi-rAb CoraLite® Plus 488-Goat Anti-Mouse Recombinant Secondary Antibody (H+L)(Cat.NO. RGAM002). This data was developed using the same antibody clone with 68773-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (4% PFA) fixed non-treated and 1 μ M Staurosporine (1/3/6 hours) treated HSC-T6 cells using Cleaved Caspase 3/P17/P19 antibody (68773-1-Ig, Clone: 2F7B8) at dilution of 1:1000 and Multi-rAb CoraLite® Plus 594-Goat Anti-Mouse Recombinant Secondary Antibody (H+L) (Cat.NO. RGAM004). This data was developed using the same antibody clone with 68773-1-PBS in a different storage buffer formulation.

